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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/771,288 02/05/2004		Kouichi Ichimura	04329.3240	3242	
75	590 07/30/2004		EXAMINER		
Finnegan, Henderson, Farabow,			NGO, NGAN V		
Garrett & Dunn	er, L.L.P.				
1300 I Street, N	I.W.	ART UNIT	PAPER NUMBER		
Washington, DC 20005-3315			2814		

DATE MAILED: 07/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	tion No.	Applicant(s)	·AX				
Office Action Summary		10/771,	288	ICHIMURA ET AL.	ØX				
		Examine	er .	Art Unit					
		Ngan N	go	2814					
Period f	The MAILING DATE of this communi or Reply	cation appears on th	ne cover sheet wi	th the correspondence address					
THE - Exte after - If th - If NO - Fail Any	MAILING DATE OF THIS COMMUNION OF THE COMMUNION OF TH	CATION.  of 37 CFR 1.136(a). In no equication.  of days, a reply within the statutory period will apply and will, by statute, cause the ag	event, however, may a re atutory minimum of thirt will expire SIX (6) MON oplication to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communic ANDONED (35 U.S.C. § 133).	cation.				
Status									
1)□	Responsive to communication(s) file	d on							
2a)□	This action is <b>FINAL</b> . 2	b)☐ This action is	non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5) 6) 7)	<ul> <li>4)  Claim(s) 1-17 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) 1-17 are subject to restriction and/or election requirement.</li> </ul>								
Applicat	ion Papers								
9)	The specification is objected to by the	Examiner.							
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any object								
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority	under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.									
Attachmer	nt(s)		_						
2) 🔲 Notio 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P <sup>-</sup> mation Disclosure Statement(s) (PTO-1449 or I er No(s)/Mail Date		Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application (PTO-152) 					

Art Unit: 2814

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

Claims 1-9 and 17, drawn to a semiconductor device, classified in Class
 subclass 14.

II. Claims 10-16, drawn to a process for using a semiconductor device, classified in Class 365, subclass 1+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be used by processes materially different than those of the group II invention. For example, the device in claim 1 can be used without "generating entanglement for the memory cells" and without "teleporting the quantum state of the memory cell" as required by claim 10.

Because these inventions are distinct for the reasons given above and, as shown by the above different classifications, the fields of search are not co-extensive and separate examination would be required, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

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Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax number for the Art unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Van Ngo Primary Examiner

Ngan Ngo

July 27, 2004